



## Plastic connector with metal coupling system

### Description

“UTG” Metalok Bantam plastic industrial circular connectors with metal coupling are a range of multiway connectors to provide the complete answer to the need for lightweight, robust circular connectors. They are available in 8 shell sizes, 11 insert arrangements **all interchangeable, interchangeable and intermountable** with the Trim-Trio “UT0” and “UTP industrial connector families.

### Features and benefits

- Available in 8 shell sizes and 11 insert arrangements incl. 3 VDE versions.
- Available in plug and receptacle versions for both male and female contacts.
- Connectors and accessories are moulded from highly durable glass-filled thermoplastic.
- Flammability rating: UL94-V0.
- UL approved-file Nr.: E31151
- Metal bayonet ring:
  - Metal wave spring loaded.
  - Locks with audible positive “click”
  - Assures 500 matings and unmatings



### Performance characteristics

|                                                                                                        |                            |
|--------------------------------------------------------------------------------------------------------|----------------------------|
| Operating temperature:                                                                                 | -55°C to +125°C            |
| Insulation resistance:                                                                                 | 5000 MΩ min.               |
| Test potential:                                                                                        | 2000 VAC                   |
| Durability:                                                                                            | 500 matings and unmatings. |
| Vibration resistance:                                                                                  | Per MIL-STD202 method 204  |
| Thermal shock:                                                                                         | Per MIL-STD202 method 207  |
| Degree of protection per DIN 40050: IP67 in mated condition. “H” version used with UTG —ST cable clamp |                            |

### Construction

|                  |                                  |
|------------------|----------------------------------|
| Connector body   | Glass filled thermoplast UL94-V0 |
| Colour:          | black                            |
| Coupling ring:   | Nickel plated brass              |
| Tri-lock pins:   | Stainless steel                  |
| Coupling spring: | Spring steel                     |

### Contact accommodation

- “UTG” connectors accept Trim-Trio removable snap-lock contacts (see contact section)
- Contacts to be ordered separately.

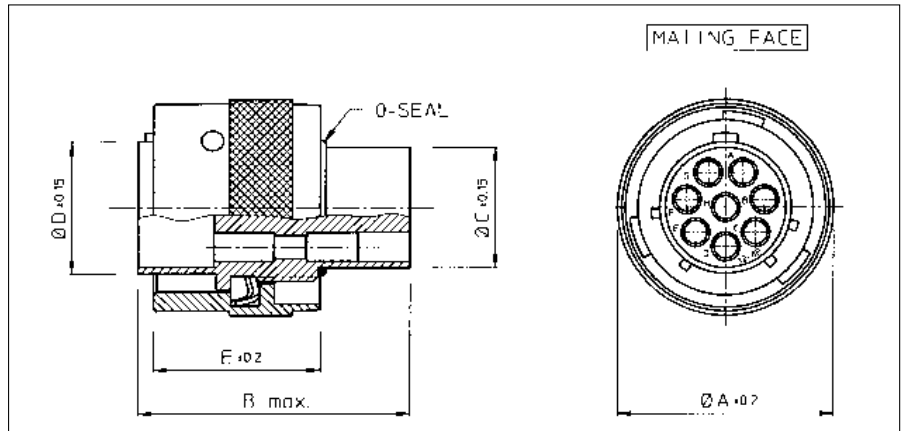
## How to order

|                     |                                                                                         |        |          |          |        |   |   |          |
|---------------------|-----------------------------------------------------------------------------------------|--------|----------|----------|--------|---|---|----------|
| Connector family :  | UTG<br>UTG                                                                              | 0<br>6 | 14<br>14 | 12<br>12 | P<br>S | N | H | --<br>-- |
| Body variation:     | 0 : Wall mounting receptacle<br>6 : Cable plug<br>1 : Free hanging receptacle           |        |          |          |        |   |   |          |
| Shell size:         |                                                                                         |        |          |          |        |   |   |          |
| Insert arrangement: |                                                                                         |        |          |          |        |   |   |          |
| Type of contacts:   | P : Pin contacts<br>S : Socket contacts                                                 |        |          |          |        |   |   |          |
| Plating             | N : Nickelplated bayonet ring                                                           |        |          |          |        |   |   |          |
| Application         | No letter : Standard version<br>H : Water protected version (only receptacle)           |        |          |          |        |   |   |          |
| Design variation    | No letter : Moulded-in contact marking (standard version)<br>Others : Specials versions |        |          |          |        |   |   |          |

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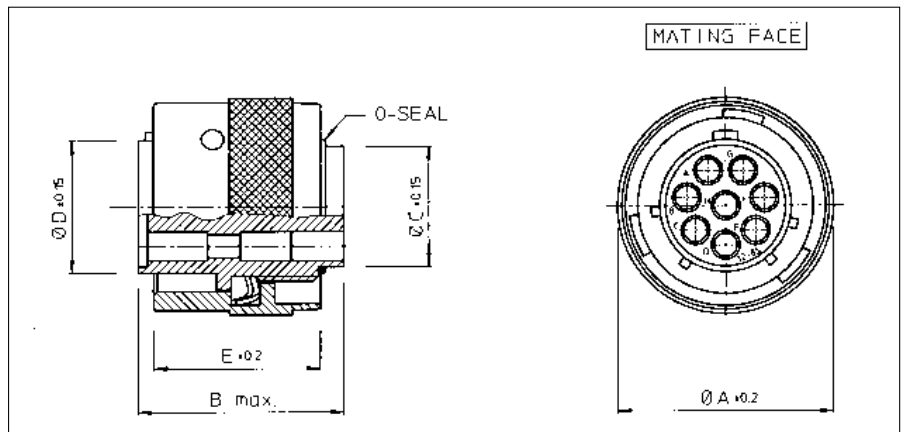


## Cable plug for pin contacts (UTG6- - -PN)



| Part number                | Shell size | Ø A $\pm 0.2$ | B max.      | Ø C $\pm 0.15$ | Ø D $\pm 0.15$ | E $\pm 0.2$ |
|----------------------------|------------|---------------|-------------|----------------|----------------|-------------|
| UTG6104PN / UTG6103PNVDE   | 10         | 21.6          | 31.8        | 10.9           | 12.2           | 19.1        |
| UTG6128PN                  | 12         | 24.8          |             | 13.8           | 15.1           |             |
| UTG61412PN                 | 14         | 28.0          |             | 17.0           | 18.3           |             |
| UTG61619PN                 | 16         | 31.2          |             | 19.9           | 21.5           |             |
| UTG61823PN / UTG6187PNVDEU | 18         | 34.3          | 31.8 / 33.0 | 22.4           | 24.0           |             |
| UTG62028PN / UTG62020PN    | 20         | 37.5          | 31.8 / 35.3 | 25.6           | 27.2           |             |
| UTG62235PN                 | 22         | 40.7          | 31.8        | 26.5           | 30.4           |             |
| UTG62448PN                 | 24         | 43.9          |             | 31.7           | 33.5           |             |

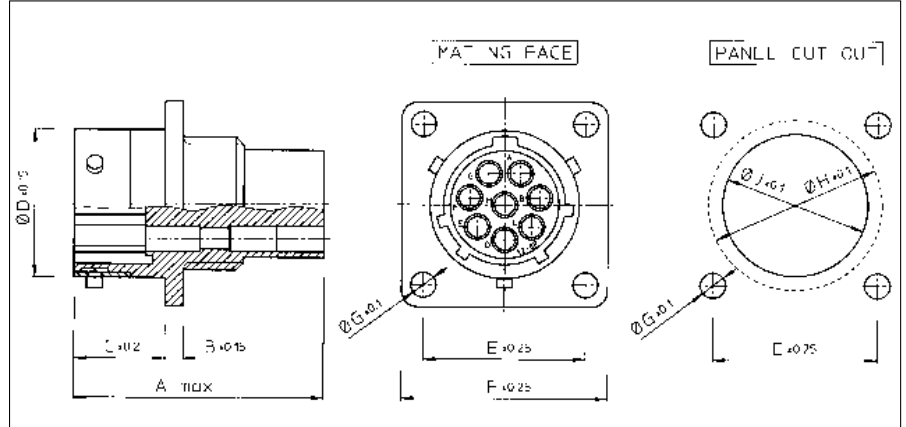
## Cable plug for socket contacts (UTG6- - -SN)



| Part number                | Shell size | Ø A $\pm 0.2$ | B max.       | Ø C $\pm 0.15$ | Ø D $\pm 0.15$ | E $\pm 0.2$ |
|----------------------------|------------|---------------|--------------|----------------|----------------|-------------|
| UTG6104SN / UTG6103SNVDE   | 10         | 21.6          | 23.9 / 26.75 | 10.9           | 12.2           | 19.1        |
| UTG6128SN                  | 12         | 24.8          | 23.9         | 13.8           | 15.1           |             |
| UTG61412SN                 | 14         | 28.0          |              | 17.0           | 18.3           |             |
| UTG61619SN                 | 16         | 31.2          |              | 19.9           | 21.5           |             |
| UTG61823SN / UTG6187SNVDEU | 18         | 34.3          | 23.9 / 29.0  | 22.4           | 24.0           |             |
| UTG62028SN / UTG62020SN    | 20         | 37.5          | 24.9         | 25.6           | 27.2           |             |
| UTG62235SN                 | 22         | 40.7          |              | 28.5           | 30.4           |             |
| UTG62448SN                 | 24         | 43.9          | 26.2         | 31.7           | 33.5           |             |



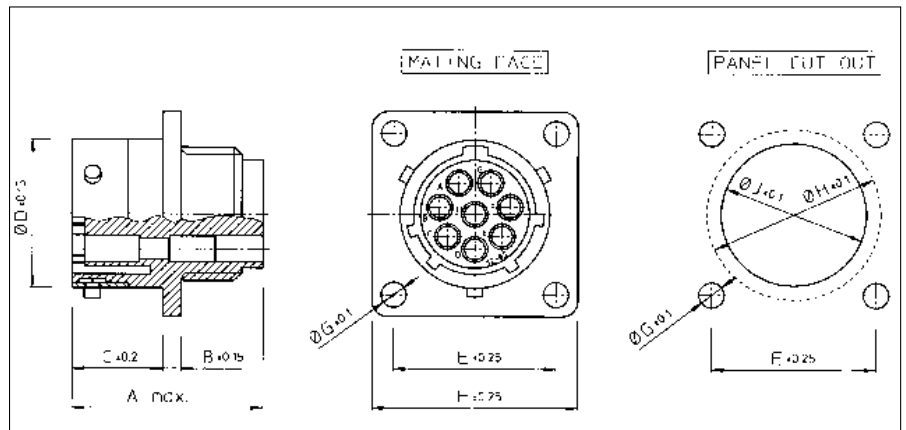
## Wall mounting receptacle for pin contacts (UTG0- - - -P)



| Part number              | Shell size | A max.    | B ±0.15 | C ±0.2    | Ø D ±0.15 | E ±0.25 | F ±0.25 | Ø G ±0.1 | Ø H ±0.1 | Ø J ±0.1 |
|--------------------------|------------|-----------|---------|-----------|-----------|---------|---------|----------|----------|----------|
| UTG0104P / UTG0103PVDE   | 10         | 31.7      | 2.3     | 11.3      | 15.0      | 18.3    | 23.8    | 3.2      | 17.3     | 15.1     |
| UTG0128P                 | 12         |           |         |           | 19.0      | 20.6    | 26.2    |          | 21.8     | 18.2     |
| UTG01412P                | 14         |           |         |           | 22.2      | 23.0    | 28.6    |          | 25.0     | 21.4     |
| UTG01619P                | 16         |           |         |           | 25.3      | 24.6    | 31.0    |          | 28.1     | 24.6     |
| UTG01823P / UTG0187PVDEU | 18         | 31.7/34.0 | 2.5     | 11.3/17.9 | 28.5      | 27.0    | 33.3    | 3.9      | 31.3     | 27.8     |
| UTG02028P / UTG02020P    | 20         | 33.3/34.3 |         | 14.5      | 31.7      | 29.4    | 36.5    |          | 34.5     | 30.9     |
| UTG02235P                | 22         | 33.3      | 3.5     | 15.3      | 34.9      | 31.8    | 39.7    |          | 37.7     | 34.1     |
| UTG02448P                | 24         |           |         |           | 38.0      | 34.9    | 42.9    |          | 40.9     | 37.3     |

For waterprotected version add "H" behind "P" e.g. UTG01412PH

## Wall mounting receptacle for socket contacts (UTG0- - - -S)



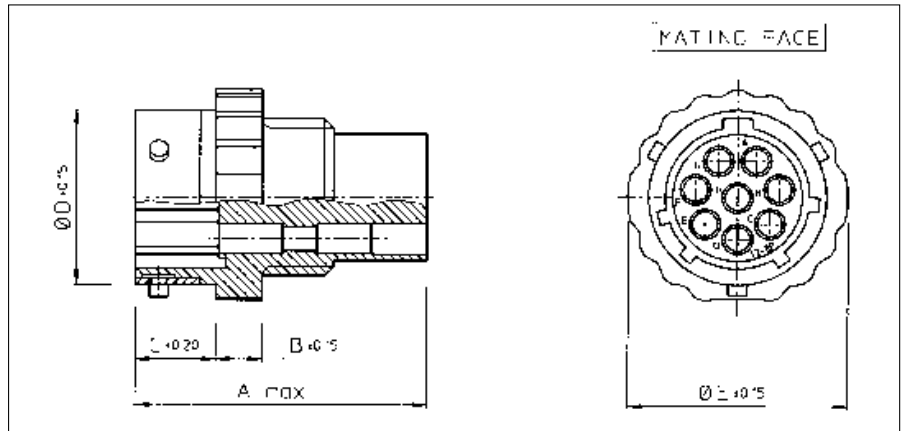
| Part number              | Shell size | A max.    | B<br>±0.15 | C<br>±0.2 | Ø D<br>±0.15 | E<br>±0.25 | F<br>±0.25 | Ø G<br>±0.1 | Ø H<br>±0.1 | Ø J<br>±0.1 |
|--------------------------|------------|-----------|------------|-----------|--------------|------------|------------|-------------|-------------|-------------|
| UTG0104S / UTG0103SVDE   | 10         | 24.3/27.6 | 2.3        | 11.3      | 15.0         | 18.3       | 23.8       | 3.2         | 17.3        | 15.1        |
| UTG0128S                 | 12         | 24.3      |            |           | 19.0         | 20.6       | 26.2       |             | 21.8        | 18.2        |
| UTG01412S                | 14         |           |            |           | 22.2         | 23.0       | 28.6       |             | 25.0        | 21.4        |
| UTG01619S                | 16         |           |            |           | 25.3         | 24.6       | 31.0       |             | 28.1        | 24.6        |
| UTG01823S / UTG0187SVDEU | 18         | 24.3/30.4 | 2.5        | 11.3/17.9 | 28.5         | 27.0       | 33.3       | 3.9         | 31.3        | 27.8        |
| UTG02028S / UTG02020S    | 20         | 27.0      |            | 14.5      | 31.7         | 29.4       | 36.5       |             | 34.5        | 30.9        |
| UTG02235S                | 22         | 28.0      | 3.5        |           | 15.3         | 34.9       | 31.8       |             | 39.7        | 37.7        |
| UTG02448S                | 24         | 30.4      |            | 38.0      |              | 34.9       | 42.9       |             | 40.9        | 37.3        |

For waterprotected version add "H" behind "S" e.g. UTG01412SH

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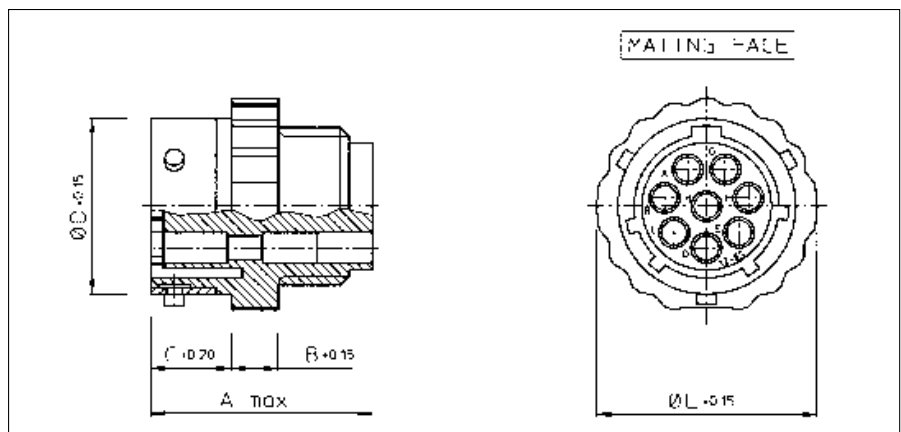
## Free hanging receptacle for pin contacts (UTG1- - - -P)



| Part number              | Shell size | A max.    | B ±0.15 | C ±0.2     | Ø D ±0.15 | Ø E ±0.15 |
|--------------------------|------------|-----------|---------|------------|-----------|-----------|
| UTG1104P / UTG1103PVDE   | 10         | 31.7      | 5.0     | 8.65       | 15.0      | 19.5      |
| UTG1128P                 | 12         |           |         |            | 19.0      | 23.5      |
| UTG11412P                | 14         |           |         |            | 22.2      | 27.0      |
| UTG11619P                | 16         |           |         |            | 25.3      | 30.0      |
| UTG11823P / UTG1187PVDEU | 18         | 31.7/34.0 | 5.0     | 8.65/15.35 | 28.5      | 33.0      |
| UTG12028P / UTG12020P    | 20         | 33.3/34.3 |         | 12.05      | 31.7      | 36.5      |
| UTG12235P                | 22         | 33.3      |         | 13.85      | 34.9      | 39.5      |
| UTG12448P                | 24         |           |         |            | 38.0      | 42.5      |

For waterprotected version add "H" behind "P" e.g. UTG11412PH

## Free hanging receptacle for socket contacts (UTG1- - - -S)



| Part number              | Shell size | A max.    | B ±0.15 | C ±0.2     | Ø D ±0.15 | Ø E ±0.15 |
|--------------------------|------------|-----------|---------|------------|-----------|-----------|
| UTG1104S / UTG1103SVDE   | 10         | 24.3/27.6 | 5.0     | 8.65       | 15.0      | 19.5      |
| UTG1128S                 | 12         | 24.3      |         |            | 19.0      | 23.5      |
| UTG11412S                | 14         |           |         |            | 22.2      | 27.0      |
| UTG11619S                | 16         |           |         |            | 25.3      | 30.0      |
| UTG11823S / UTG1187SVDEU | 18         | 24.3/30.4 |         | 8.65/15.35 | 28.5      | 33.0      |
| UTG12028S / UTG12020S    | 20         | 25.9      |         | 12.05      | 31.7      | 36.5      |
| UTG12235S                | 22         |           |         | 34.9       | 39.5      |           |
| UTG12448S                | 24         |           |         | 13.85      | 38.0      | 42.5      |

For waterprotected version add "H" behind "S" e.g. UTG11412SH